Number	Date of issue	Page numbers
745	1 April	1-64
746	8 April	65-128
747	15 April	129-184
748	22 April	185-240
749	29 April	241-296
750	6 May	297-360
751	13 May	361-428
752	20 May	429-492
753	27 May	493-548
754	3 June	549-604
755	10 June	605-660
756	17 June	661-724
757	24 June	725-788

U. of ILL. LIBRARY
OCT 20 1971
CHICAGO CIRCLE

new scientist

Index Volume 50

1 April—24 June, 1971

Editorial Offices:

128 Long Acre, London, WC2

SUBJECT INDEX

Academic trends, E. Shils on 5
Activation analysis, forensic uses of 597
Aerotrain for France 153
Aetherius Society and cosmic masters 772
Aflatoxin effect on poultry 9
Aggression and violence, theory on 177
Aggressive instincts in rabbits 501
Agriculture, computer centre of, in Russia 208
Air bubble building for Canadian Arctic 158
Air conditioners, noise problems of 574
Air defence systems, computerized 230
Air fares, international, surcharge 246
Air pollution, monitoring techniques in Europe 206
Air show, Paris 644
Air traffic control 153, 287, 366
Air transport, charter flights 665
Aircraft, civil, programmes, assistance for 759
Concorde 133, 287, 520, 553, 693, 778
F-8 Crusader, supercritical wing 30
jet, noise attenuation in 389
MRCA, future of 265, 693
paint for 209
radar signature of, reflector to increase 29
Russian, sale of 693
SST 4, 85, 460
Trident, wing design 207
TU 144, threat to Concorde 189
YAK 40, sale of 693
Aircraft engines, jumbo jet, noise reduction 521
Olympus, silencing 321
RB 211, future of 633
Aircraft industry, future of 609
Aircraft landing, ILS doppler scanning guidance system 320
Aircraft seats, fireproof 630
Aircraft wing design, Trident 207
Airlines, economic condition of 553
Airport in Canada, ecological study of site 751
Airship design for cargo carrying 268
Alaska, oil pipeline 70, 79, 108
Algae fossils, blue-green, synthesis of 502
Alkali Acts, proposals 463
Allende meteorite, composition of 612
Altruism, experiments with 73
Ambulances, traffic lights control for 406
Amphetamines, voluntary ban on 390
Amsterdam, merchant ship recovery 346, 746
Anaesthetics, mode of operation 438
Anemone-crab, relationship 194
Animal Health Trust's Farm Livestock Research Centre 68, 228
Animal husbandry, intensive 652, 774
Animal skins, rare, restriction on imports 213
Animals, experiments on, report on 664
use in medical research 101, 158, 417
Ants, homing instincts and olefactory stimuli 8
Apollo 12, cosmic ray tracks in astronauts' helmets 192
Apollo 14, lunar rock samples 6
Apollo 15, lunar roving vehicle tyres 574
Archaeology, marine 746
Arctic, Canadian, British air bubble building for 158
Arkwright, R., festival to honour 407
Arms industry 716
Aromatic molecules 612
Artsimovich, L.A., activities 766
Ashworth, W., scientist in non-scientific job 454
Asia, science and technical education in 729
Aspirin, mode of action 744
Astronauts, cosmic ray tracks in helmets 192
observations of cosmic-rays 177, 348, 595
Astronomical Society, Croydon, computer facilities 45
Atlantis, evidence of 406
Atomic bomb explosions, Japan, cancer in survivors 368
Atomic transition probabilities, measurements 558
Australia, laser lighthouse 572
Avalanche hazard, stress pattern 74
Avco Corp., boron tape production unit 321
Babies, unborn, sex-tests 54
Baccalaureate, International, report on 325, 482
Bacteria, bioluminescent, heroin detection with 705
Bacterial movement, propulsive apparatus 8
Bacteriophage T4, mode of action; correction 179
Ball-bearing cages, manufacture of 91
Ballistic missile early warning system 574
Bamborough, R., radio programme 766
Banfield, T., scientist in non-scientific job 457
Basov, N.G., Harwell conference 45; correction 179
Batteries, development of 528, 713
zinc-air cells 465
BBC interviews, bias in 772
Bearing cages, manufacture of 91
Bearings in space 632
Bed, vibrating 389
Beer, alcoholic content and gravity 463
Beer cans, use in building panels 629
Bees, flower preferences 307
Beetles, control in food stores 503
response to ultraviolet light 369
Behaviour, human, crowding effect on 10, 177, 229, 542
Belfast, riots, psychiatric effects 191
Bester, hybrid sturgeon, mass breeding 388
Biological pest control 523
Biological weapons, Russian ban on 68
Bird populations, organochlorine compounds effect on 189
Birds, as food 654
of prey, campaign against pole traps 364
rare, sightings 176
Birds nests, composition of 227
Birth control 114, 134
Black holes and gravitational radiation 559
Black people, IQ of 406
Blind persons, braille reading with left hand 732
tactile sight system for 750
Blood cells, adaptation to high altitudes 247
Blood-pressure measuring machine 324
Boat race and rowing techniques 54
Boat sails, inflatable 389
Bonner, J., work in molecular biology 700
Boote, B., Birthday Honours award 766
Boron filament and tape production 321
Bosworth courses 71
Braille system for computers 154
Brain, chemistry of, research in 39
communications within 116
Brain damage, compensation in spinal cord 671
Brake system, anti-skid, for lorries 324
Breakwaters, floating 466
Breast cancer and viruses 436
Brickworks, mercaptan pollution from 278
Bridge(s), box girder 728, 741
Strait of Messina 586
Britannia, satellite terminal for 406
British Association, new programme and finance 730
British Medical Association Board of Science, Annual Report 365
British Nuclear Fuels, investment in 2
British Rail, Advanced Passenger Train 624
British Society for Social Responsibility in Science, resignations of S. and H. Rose 406
British Trust for Ornithology, activities 705
Bronowski, J., television film of grunion run 588
Bubble chamber, heavy-liquid, experiments 367
Budget benefits for small businessmen 147, 401
Building materials, uranium mine tailings 534
Building panels, beer cans use in 629
Building problems in permafrost regions 206
Building Research Station, 50th anniversary 109
survey of building techniques 665
Buildings, historic, preservation of 759
Buses, electric, in Germany 749
quiet, in Sweden 539
Businessmen, small, budget benefits for 147, 401
Byrne, C. Irish giant 716
Cables, underground, protection against termites 573
Cadmium poisoning, foetuses protection against 137
Cadmium pollution 186, 540
Cage compounds, polycyclic 306
Calder, N. The Mind of Man 170
California, earthquakes in, seismic studies 225
California University, Berkeley campus 588
Cambridge Instrument Group, take-over bids 495, 652
Canada 187, 195, 207, 265, 751
Canadian Arctic, British air bubble building for 158
Cancer and cancer research 82, 137, 191, 247, 368, 396, 433, 436, 460, 485, 518, 668, 706
Car(s) and car driving 207, 324, 371, 520, 534, 594, 749
Car engines, steam, Trevithick's inventions 56
V-12, mass production by Jaguar 508
Car industry, R. Nader on 278
Car thefts, infrared detection system 573
Carbon fibres 138, 287, 351
Carcinogenic industrial materials, health hazards 190, 348
Carcinogens and giant polyribosomes 735
Casey, P., scientist in non-scientific job 455
Caspian Sea, Siberian river network 472
Cat-fish, walking, in Florida 716

Cattle fodder, garlic in 772
Cavendish Chair of Experimental Physics 475
Cell growth, cyclic AMP effect on 670
Cell membrane, permeability 193
Cells, hybrid, and malignancy 732
RNA transfer between 438
Census 132, 213, 219
Central Electricity Generating Board, design faults in generating plants 759
Ceramics, glass, machining properties 387
machining with carbon dioxide laser 28
CETA Electronics, Digital Variable Simulator 273,595
Chairs, fireproof 630
Chalfont, Lord, on disarmament 334
Chalk cliffs, flint in, origins 557
Channel Tunnel, costs 693
Chemical and industrial waste, dumping in sea 463
Chemical industry, British, and EEC 664
Chemistry, Science Research Council Report on 31
Children, armless, body harness 287, 351
gifted, segregation of 227, 778
China, science and technology in 586, 636, 706
Chloroplast and nucleus, relationship between 369
Chromosomes 7, 54, 230, 250
Cigarette holder 632
Cigarette smoking 268, 500
Cinema organists 110
Circadian rhythm in blind animals 613
City-centre transport system, conveyor belt 29
City University, systems and management course 704
Civil Defence, role of 116
Clarendon Laboratory, superconducting magnet 737
Clocks, last word on 302
Clutch, simplified 89
Coal mines, methane gas from 632
Cockerell, Sir Christopher, hovercraft development 279
Cocking, E., team of botanists 262
Colour preference, transfer via brain extracts 137
Columbia River, declining salmon stocks 322
Commercial products, promotion of 353
Common Market 168, 522, 606, 664
Commoner, B., on science and scientists 102
Communication, and odours 179, 230, 351
primordial 613
within brain 116
Communications, electronic, J. Pierce activities 586
Communications system, Intelsat 552
Companies, financing of 348
international, overseas subsidiaries 25
Computer-based information retrieval services 32, 285, 348, 542, 713
Computer centre of agriculture in Russia 208
Computer education 498
Computer industry 206, 226, 387, 463, 633
Computer Laboratory Systems Project 88
Computer language, PL/1 680
Computer memory 29, 686
Computer programme for grass cutting 153
Computer project, wood in farm buildings 388
Computer services 684
Computer technology, future 168
Computer usage, survey 466
Computer watch on MPs 300, 390
Computerised air defence systems 230
Computers, and invasion of privacy 628
Braille system for 154
Control Data Corp., range 27
faults in 485
ICL range 266
in Russia 404, 519
information storage and privacy 289
mini 134, 288, 483, 572
programming language for 680
radar development with 629
to monitor cervical cancer smears 518
universal language for 685
Conception, human, Darwin Lecture on 557
Concorde aircraft 133, 287, 321, 520, 553, 693, 778
Concrete foundations for railway lines 519
Concrete panels production, Go-Con process 629
Congo, wildlife devastation in 138
Conservation 270, 408, 420, 666, 714
Consumer spending in US 417
Contraceptive, oral, future of 117
Contraceptive pill, addictive 114
Contract research 198, 748; correction 653
Control Data Corp., computer range 27
Cooling tower design 208
Coranulene, synthesis of 612
Corfam synthetic leather 37
Corrosion, metal, bolts to indicate 388
Cosmic calendar, dating techniques 668
Cosmic masters and Aetherius Society 772
Cosmic microwave background 735
Cosmic rays 177, 192, 250, 348, 595
Cottrell, Sir Alan, appointment 44
Council of Europe, ecology 363
Countryside Commission, director of 3
Cow dung, gas from 386
Cox, J., technological manpower data 461
Crab-anemone relationship 194
Crocodiles, conservation programme 210
Crowding, effect on human behaviour 10, 177,229,542
Crystal junctions 193
CS gas 576, 690
Culham Laboratory for fusion research 398
Cyclic AMP 670, 734
Cygnus pulsar 136, 439
Cytoplasm, effect on nucleus 668
Data banks, US Senate hearings 44
Data transmission, laser beams for 91
DDT, in Japan and US 169
Deaf-blind person, telephone unit for 208
Decimalisation 417
Defence research 251, 418, 541, 551
Defence systems, air, computerised 230
Dental infections, effects on health 733
Desalination 94, 693
Desert water, purification of 631
Design, engineering, and economy 618
Detergents, enzyme 31, 556
Diffraction gratings, optical methods for 89
Diodes, light-emitting, price reductions 26
Disasters, natural 495, 778
DNA 138, 139, 370
Dogs, visual imaging of 437
Doomwatch television programme 116, 229
Drugs and drug addiction 56, 531, 539
Dyform steel wire, increased production 628
Ear studies 558, 734
Earth Week, Bronx Zoo 279
Earthquakes 117, 225
Earth's mantle, evidence from volcano 7
Ecology 363, 553
Economy, and engineering design 618
Edgar, R., educational experiments 588
Education, computer 498
debate in House of Commons 338
higher 519, 607
technical, and science, in Asia 729
Education and Science, Department of, annual report 243
Egg production, temperature effect on hatchability 27
Electricity generation 28, 90
Electro-convulsive therapy 350
Electrocution of patients 687
Electroluminescence, use of zinc selenide 26
Electron micrographs, holographic image deblurring for 304
Electronic machines, intelligent 55, 286, 540
Electronic probes in body 687
Electrostatic filtration techniques 749
Embryo implants in test tube 137
Employment situation of scientists 350, 682
Engineering, design and economy 618
quality in 152
Engines, internal combustion, with bellows 91
Wankel rotary 206
English Channel, safety in 301, 594
Enquiry, Harrow County School journal 645
Environment Consultants, Sphere 553
Environmental and temperature changes, effect on man 587
Environmental issues in US 218
Environmental matters and New Scientist 114
Environmental pollution 109, 728
Environmental problems, geophysicists' role in 696
Environmental stresses on young animals 73
Environmental studies in West Germany 474
Enzyme-detergents 31, 556
Epidemiology and family mobility 503
Epitaxy 193
ESRO, research 67
Estuarial pollution 759
Estuarine research 644, 714
Ethylene as plant growth regulator 511, 712
Etna, Mount 504, 611, 644
Europe, industrial collaboration 432
metric system 118
European Philips Contest 639
Everywoman, review of book 277
Executive persecution, last word on 135
Exercise and androgen production in males 306
Exocet guided missile 693
Explorer 42 satellite 526, 732
Explosives store, ICI 767
Eye, mode of action 502
Fabrics, polyurethane-coated 630
Fairchild, S., obituary 169
Family mobility and epidemiology 503
Family Planning International Campaign 134
Fans, electric, Japanese production of 289
Farming 270, 420, 652, 774
Fawley power station, superconducting motor 320
Females, X chromosome inactivation in 7
Figs and wasps relationship 144, 352, 482
Film, electronic, plasma technique 685
Filtration, electrostatic, techniques 749
Financial crisis, international 401
Finch Brothers' Foundry, Dartmoor 332
Finniston, H.M., on science and technology 162, 285, 348, 483
Fire, protection of steel against 213, 267
Fire extinguishers, domestic, labelling 213
Fire hazards 31, 228, 419
Fireproof chairs 630
Fish, industrial waste in North Sea 267, 595
Fish-farming 485
Fission fragments of superheavy elements 668
Flagella, internal structure 9
Flint in chalk cliffs, origins 557
Flood barrier, River Thames 552
Florida, walking cat-fish in 716
Flowers 307, 408
Fluidic systems 288, 748
Foetuses protection against cadmium poisoning 137
Fog clearing method 91
Food stores, beetle control in 503
Food technology 135
Foot, Michael, support of Lord Melchett 31
Football fanning, last word on 666
Ford, Henry, on investments in Britain 25
Forensic uses of activation analysis 597
Formamide molecule in Galaxy 191
Fossils, blue-green algae 502
Foulness airport 243, 316, 594
France 153, 474, 573, 579
Frederika, Queen, of Greece 176
French, D., scientist in non-scientific job 456
French language, decline of 716
Friction welding, orbital motion 572
Fuel, shortage of 626
Fulmer Research Institute Ltd., silver jubilee 748
Furnace, plasma, steel production 466
reheating, opposed zone 155
Fusion research and plasma physics group 398
Futurology 539
Galactic centre, infrared radiation 194
Galactic nuclei, infrared emission from 694
Galaxies 139, 191, 194, 368, 370, 436, 732
Gardner, R.N., activities in IUCN 168
Garfunkel, A., as geometry teacher 279
Garlic in cattle fodder 772
Gas, from cow dung 386
Gas centrifuge, implications, conference on 364
Gas plasma display panels, colour technique 686
General relativity theory and radar echoes 369
Genes and genetic engineering 136, 139, 669
Geodynamics Project 729
Geophysicists' role in environmental problems 696
Ghosts 346, 484, 541, 704
Giants 716
Glass, window, with heat attenuation properties 91
Glass-ceramics, machining properties 387

Glutaminase, effect on leukaemia 192
Gofman, J., on radiation hazards 532
Golf Ball Harvester 573
Gout, last word on 5
Graduates, science, employment difficulties 350
Graffiti 597, 772
Grass, grown on sand, puddle-free 632
Grass cutting, computer programme for 153
Grasshoppers, insect-repelling liquid 248
Gravitational radiation and black holes 559
Gravitational waves 75, 307, 503
Greenhouse plants, rotating conveyor for 155
Greening of America, review of book 114
Grimbledon Down staff, fingers 177, 287
Grosch, H., on computer industry 387
"Growing Up", sex-education film 301, 481
Grunion run, television film of 588
Hadley Rille on Moon, nature of 501
Haemoglobin 676, 762
Hafnium wire, price increase 347
Hallucinogenic drugs, effects 56
Harrow County School, science journal 645
HASH, computerised prose 346
Hawaiian Islands, environmental pollution of 109
Health research in US 706
Heart beat measurement, wire-less device 631
Heart pacemaker 268, 389, 520
Heavy elements, source of 248
Helicopters 387, 748
Hens, squatting instinct, breeding for 368
Herschel, Sir John F.W., profile on 392, 651
Heroin detection with bioluminescent bacteria 705
High energy physics 108, 382
Hiroshima, increase in cancer 368
Histones, role of 136
Holiday camps for scientific studies 45
Holland, water pollution from potato products 269
Holography 26, 304, 321
Honeywell Inc., information and secrets 279
Hookway, R., director Countryside Commission 406
Horse race, Slagthorpe 589
Hospital meals, automatic distributors 632
House building 154, 665
Hovercraft 140, 188, 573
Hovertrain, future of 756
Hydén, H., research in brain chemistry 39
Hydrogen, metallic 644
Ice, sea, monitoring thickness of 195
Ice stalactite to drain brine 368
Image, stationary, of rotating object 388
transmission device 269
Immunological engineering 396
India, drilling for water in 227
Industrial collaboration with Europe 432
Industrial espionage 279
Industrial workers, group work experiment 353
Influenza, live vaccine development 192
Information retrieval, computer-based 32,285, 542, 713
Information storage, high density 268
Infrared emission from galactic nuclei 694
Infrared laser, tunable 564
Infrared radiation from galactic centre 194
Infrared spectroscopy, tunable laser for 6
Insect control by desiccation 669
Insect parasites, behaviour patterns 353
Institution of Electrical Engineers, centenary 475
Insulation, thermal 70, 154
Integrated circuits 518, 685
Intelsat communications system management 552
Internal combusion engine with bellows 91
International Baccalaureate, report on 325, 482
International Business Machines, computer services 684
International companies, overseas subsidiaries 25
International Computers Ltd., computer range 266
International Union for Conservation of Nature 408
Inventions, market for, in France 645
Ionospheric spacecraft 72
Ions, negative, reactions in upper atmosphere 193
IQ of black people 406
Ireland, industry in 69, 608
Iron 98, 558, 612
Issels, J., cancer treatment 42, 109
Jackson, D., appointment to Surrey University 474
Jaguar car engine V-12 508
James, Tony, profile 274, 650, 774
Japan 45, 106, 169, 368, 464
Journalism, silly season in 641
Kinases, protein, and cAMP interaction 734
Kissing, last word on 730
Klompé, M., Minister of Culture 346
Knowhow, technological, trade in 326, 775
Kresge College, R. Edgar educational experiments at 588
Laboratories, science, safety in 228,419,540,713
Lasers 6, 28, 90, 91, 216, 437, 564, 572
Laughter and ticklishness 304
Lead pollution 31, 300, 463, 497, 596
Learned societies, financial problems 44
Learning 40, 735
Leather, synthetic, Corfam 37
Left-handedness and visual-spatial ability 307
Lens system, automatic-focusing 751
Leukaemia, glutaminase effect on 192
Levitation, magnetic, railway employing 322,464,594
Light beam to power electronic probes in body 687
Lighthouse, laser, in Australia 572
Lighting, use of zinc selenide in 26
Limbs, artificial, powered 94
Liquefied petroleum gas, duty on 576
Littlewood Committee report 664
Llewellyn-Jones, D., Everywoman 277
Lockheed Aircraft Co. 3, 460
London airport. See Foulness
Lorries, anti-skid brake system for 324
Loudspeakers, compression-chamber 632
LSD, pure, effects of 367
Lumberjacks, vibration problems of 154
Lunar rays 249
Lunar samples 6, 248
Lunar, see also Moon
Lungs, cigarette smoke effect on 268, 500
Machines, intelligent 55
Mackay, D., communications within brain 116
Magazine, science fiction, New Worlds 767
Magnet, hybrid superconducting 737
Magnetic money system for commuters 269
Magnetism in lunar samples 248
Magnetohydrodynamic power generation conference 244
Males, androgen production in, and exercise 306
defence of 75
Malignancy and hybrid cells 732
Malnutrition 137, 735
Man, future of, symposium 92
Management courses in Russia 45
Manpower, for industrial R & D 458
scientific 431, 440-459
Marine archaeology 746
Marine life, oil pollution effect on 559, 714
Mariner Mars mission, modifications 671
Mariner spacecraft 8 and 9 305, 482
Maritime Museum, Greenwich 278
Maritime Trust, activities 746
Mars, bright spots, source of 247
life on, prospects for 74
Mariner Spacecraft 8 and 9 to orbit 305, 482
Mars 3, space probe, French experiment aboard 671
Mathematical Association conference 188
Mathematics teachers, shortage of 4
Maxwell, J.C., profile on 55
Mead, M., return to Polynesia 225
Measurement Technology Ltd. 704
Mediator air traffic control system 287
Medical care, gaps in 365
Medical research, animals use in 101, 158, 417
Melchett, Lord, M. Foot support of 31
Members of Parliament 300, 390, 633
Membranes, cell, permeability 193
freeze-etch fracture faces 439
structure, molecular pattern 22
Memory, and learning, symposium on 40
biochemical basis of 559
circulating, device 155
computer, read-mostly 29
Mendel, G., horticultural skill 250
Mental health tribunal hearings 433
Mental illness 158, 497, 583, 596, 775
Mercaptan pollution from brickworks 278
Mercury pollution, discharges into sea 687
Mergers, management problems of 14
Meson, A2, splitting controversy 194
Messina, Strait of, bridge to cross 586
Metal corrosion, bolts to indicate 388
Metallic hydrogen 644
Metaphors 228
Meteorite, Allende, composition of 612
Meteorological Office services 560
Methane gas from coal mines, utilisation of 632
Metrication 31, 118
Micro-organisms, DNA in, electron microscope pictures 370
Milk substitute in India, award for 645
Milton Keynes, mercaptans in air 278
Mind of Man, N. Calder book, review of 170
Mineral retrieval from slurries 685
Mines, oxygen deficiency alarms for 152
Missile, guided, Exocet 693
surface-to-surface 390
Molecular biology, J. Bonner work in 700
Molecular evolution 304, 541
Molecules, aromatic 612
in interstellar space 669
Money, magnetic, system for commuters 269
Monsanto Chemicals Ltd., ban on PCBs 16
Moon and moon research 72, 139, 249, 417, 438,501, 766
see also Lunar
Mortuaries, lack of hygiene in 772
Motor, superconducting, at Fawley power station 320
Motorways 86, 321
Mott, Sir Nevill, Cavendish Chair 475
Mount Etna 504, 611, 644
Multiple sclerosis, treatment 390
Muscle-nerve connections 610
Mushroom growing 226
Music, quadrophonic 88
Nader, R., on car industry 278
Nagasaki, increase in cancer 368
Naish, G., retirement of 278
Nash, Ogden, death of 534
National Academy of Sciences, report on 311
National Centre of Tribology, symposium 31
Natural disasters 495, 778
Natural gas conversion, map 518
Neave, A. Select Committee on Science and Technology 402
Neilands, J., activities at Berkeley campus 588
Nerve-muscle connections 610
Nervous-tissue development, studies 72
Neutrinos 610, 669
Neutron irradiation of molecules for new complex 74
New Forest, amenities 525
New Scientist 114, 117, 419
New Worlds science fiction magazine 767
New York City, power supply in 272, 715
Nicholson, M. Birthday Honours award 766
Nitrogen-fixation in grass 75
Nitrogen polymer, synthesis 7
Nobel Prize citation, wording 168
Noise problems 389, 521, 539, 574
Non-proliferation treaty and SALT 54
Northern Polytechnic, physics department 34, 286
Nuclear Fuels, investment in 2
Nuclear materials, mobile tracking system 688
Nuclear power 365, 727
Nuclear power station, Gentilly, Canada 207
Nuclear-powered heart pacemakers 268
Nuclear powered merchant ships 133, 268, 379
Nuclear radiation hazards 532
Nuclear reactors 389, 628
Nuclear ships, Japanese built 464
Nuclear test ban hearings, US 460
Nuclear weapon tests, underground, monitoring 131
Nucleus, cytoplasm effect on 668
Numerical control, woodworking machines 750
Nutrition in Third World 148, 285
Nylon production, new process 518
Objectivity, concept of 650, 774
O'Brien, B., change in career 587
Oceans 306, 500
Odours 179, 230, 351, 370, 439
Oil in South Vietnam, US interests 728
Oil pipeline, Alaskan 70, 79, 108
Oil pollution 323, 525, 559, 714

Oil supply and demand statistics 686
O'Leary, B., NASA space programme 169
Olympic Games, Winter, rapid transit system 573
Ombudsman, use of 158
Opals, studies of 734
Open University 336, 418, 481, 541
Opium-eating 539
Optical illusions 20
Organ transplantation 396, 525
Organochlorine compounds 16, 94, 189
Ornithology, British Trust for, activities 705
Owen, P., Aeronautical Research Council chairman 225
Oxfam campaign, Shirtless Friday 470
Oxygen deficiency alarms for mines 152
Oysters, Portuguese, decline of 587
Packaging 654
Paint for aircraft 209
Paintings of wildlife 54
Palaeomagnetism, Vetlesen Prize award for 407
Paper, waste 176, 258, 260
Parapsychology, mental influence on random events 757
Paris air show 644
Parliamentary questions, replies to 633
Particle accelerator, Batavia, US 407
Pasteur Institute, Paris, new laboratories 474
Patience, last word on 434
Pauling, Linus, profile on 755
PCBs, ban on use of 16
Pearse, R., achievments in flight 289
Pedler, K., Doomwatch television programme 116, 229
Permafrost regions, building problems in 206
Personality differences and dreaming 367
Pesticides 94, 523, 669
Petrol, lead in, report 300
Philips Contest for Young Scientists 639
Phoenix House for drug addicts 531
Physics research in France 474
Pierce, J., electronic communications 586
Plants and plant research 155, 262, 324, 408, 511, 577, 712, 714
Plasma display panels, gas, colour technique 686
Plasma furnace, steel production with 466
Plasma technology in thin film production 685
Plastic watch 467
Plastics, high temperature 760
Plutonium plant and production 386, 556
Pollen, behaviour during growth 733
Pollution, cadmium 186, 540
 environmental 109, 728
 in Italy 44
 lead 31, 497, 596
 mercaptan, from brickworks 278
 mercury, discharges into sea 687
 of estuarial and tidal waters 759
 of seas and channels, P. Walker on 338
 oil 525, 559, 714
 organochlorine chemicals 16
 polychlorinated biphenyl 16
 river 244, 614
 sulphur dioxide 373, 540, 651
 P. Walker on 390
 water, from potato products 269
Polychlorinated biphenyl, pollution problem 16
Polymer films, production of 685
Polyribosomes, giant, and carcinogens 735
Polytechnics 34, 286, 513, 516, 650, 776
Polyurethane-coated fabrics 630
Polywater 670
Population 265, 352, 433, 525
Post Office equipment 160, 684, 767
Postal coding system in Russia 485
Postal delivery network, electronic 386
Poultry, aflatoxin effect on 9
Power policy for US 626
Power storage, underground 177
Power supply in New York City 272
Printed circuits, production and sales 595
Priore, A., cancer cure 433
Progesterone, mode of action 249
Propitiation, last word on 366
Protein deficiency and learning 735
Protein kinases and cyclic AMP 734
Psychiatric patients, electro-consulsive therapy 350
Psychokinesis 757
Public appointments, nomination by Secretary of State for Education 94
Pulsar, Cygnus 136, 439
Quadrophonic music 88
Quantasome 439
Quasars 8, 139
Rabbits, aggressive instincts and barbiturate anaesthesia 501
Radar developments 29, 369, 629
Radda, G., profile on 642
Radiation damage in plant chromosomes 250
Radio detection of storms 501
Radio structure of quasars 8
Radio telescope, West Germany 384
Radio waves 136, 671
Radioactive exposure, symposium 108
Radiochemical Centre Ltd. 26
Railway, magnetic levitation principle 322, 464, 594
Railway lines 89, 519
Railway locomotive, Kestrel 704
Railway train, rapid transit, Japan 573
Railway tunnels, pressure changes 465
Raman laser, spin-flip 564
Rams, last word on 498
Random events, mental influence on 757
Rats, eating habits and bait shyness 178
 last word on 554, 714
Red Data Book for flowers 408
Red shift/distance relationship 254, 712
Redshifts in galaxies, discrepancies 368
Refuse, disposal and recovery 736
Relativity, general, theory and radar echoes 369
Research, and development in Europe and US 587
 and science, analysis of 228
 contract 198, 748; correction 653
Research councils 299, 463, 672
Retrieval services, computer-based 32, 285, 348, 542, 713
Reverse transcriptase in gene amplification 669
Ringberg-Klinik 42, 534
River, Columbia, declining salmon stocks 322
River network, Siberian, diversion to Caspian Sea 472
River pollution 244, 614
River Thames, flood barrier 552
River Trent Research Programme 614
Rivers and streams, conservation of 666
RNA phage, replication machinery 436
RNA transfer between cells 438
Road Research Laboratory 371
Root mass in water main 117
Rose, H., resignation from BSSRS 406
Rose, S., resignation from BSSRS 406
Rotating object, stationary image of 388
Royal Society for the Protection of Birds 364
Russia, biological weapons ban 68
 campaign by scientists for personal freedom 705
 computer applications 208, 226, 404, 519
 management courses 45
 postal coding system 485
 space research 256, 308
Rustless iron in Delhi 612
Safety, at sea 301, 594
 in science laboratories 228, 419, 540, 713
Salam, A., J. Oppenheimer Prize 586
Salaries, scientists', international scales 446
Salmon stocks and catches 322, 633
Satellite terminal, SCOT, for naval ships 406
Science, and research, analysis of 228
 and technology in US at end of millennium 76
  Select Committee reports 402, 463, 498, 525, 633
 in China 706
 public appeal and finance 204, 714
Science courses, university, changes in 440
Science fiction magazine, New Worlds 767
Science graduates, employment difficulties 350
Science Journal and New Scientist merger 117
Science Research Council Report on Chemistry 31
Science teachers, shortage of 4, 444, 712
Scientific instrument industry 495, 652
Scientific manpower situation 431, 440-459
Scientific research in West Germany 471
Scientific studies, holiday camps for 45
Scientists, and Inventors, Philips Contest for 639
 in non-scientific jobs 454
 in US 571
 salaries, international scales 446
 television programme 597
Scotophobin molecule, behavioural effect 559
Sea, safety at 301, 594
Seabird Wreck of 1969, NERC report 69
Seabirds, oiled, survival rates 607, 777
Seals, underwater, metabolism 249
Seismic experiments on Moon 139
Select committees, television proposals 759
Semiconductors, switching, laser light for 437
Sewage disposal and treatment 27, 88, 116, 158, 387, 652
Sewer system, Camden, TV survey 27
Sex-education film "Growing Up" 301, 481
Sexuality and odour 179, 230, 351, 370
Seyfert galaxies 502, 526
Sheep, last word on 190
Shils, E., on academic trends 5
Shipbuilders, Upper Clyde, bankruptcy 663
Ships, merchant, Amsterdam, recovery operation 346
 nuclear 133, 268, 379, 464
 vibration problems in 155
Shipwrecks, historical, preservation of 746
Siberian river network, diversion to Caspian Sea 472
Silly season in journalism 641
Skidding, braking system to prevent 324
Skinks, tail autotomy and behaviour 558
Slurries, mineral retrieval from 685
Smog, research into 576
Social psychology and swimming baths 344
Societies, learned, financial problems 44
Software valuation for tax purposes 519
Solar system, early, palaeomagnetism of 195
Solar wind, properties of 610
Solzhenitsyn play, Candle in the Wind 168
Sonic boom, financial claims 287
South Africa, uranium-enrichment in 628
Space research and developments 72, 186, 256, 267, 308, 338, 468, 632, 669, 752
Spectacle wearers, intelligence of 613
Spectroscopy, atomic 558
 infrared, tunable laser for 6
Spermatozoa, DNA in 139
Sphere Environment Consultants 553
Spin-flip Raman laser 564
Spinal cord, compensation for brain damage 671
Stars, Ap, phenomenon 73
Statues, last word on 71
Steam engines for cars 56
Steel, protection against fire 213, 267
 ultrasonic temperature gauge 208
Steel-forging plant, Dartmoor 332
Steel production with plasma furnace 466
Steel reheating furnace, opposed zone 155
Steel wire, Dyform, increased production 628
Storms, detection by radio 501
Strategic arms limitation talks 54, 496
Strategic arms race 715
Student grants, increase in 554
Sturgeon, hybrid, mass breeding 388
Submarines, detection and location of 567
Subsidence of SE England 556
Sugars, recovery from domestic refuse 736
Sulphur atoms in Galaxy 370
Sulphur dioxide pollution 373, 540, 651
Sun 558, 610, 671
Superheavy elements, fission fragments of 668
Supermarket, automatic, in Japan 749
Surgery, transplant 525, 733
Sweden, "Alternative City" organisation 485, 651
Sweeteners, artificial 323
Swimming baths and social psychology 344
Szasz, T.S., mental illness 583, 775
Tablets, manufacture of 104
Tachyons 307, 500
Tamm, I., obituary 226
Tamplin, A., on radiation hazards 532
Tantalizer, 200th publication 395
Taste 278, 306
Tax-changes by Conservative government 94
Taylor, M., scientist in non-scientific job 455
Teachers, mathematics, shortage of 4
 science 4, 444, 712

Technological transfer in UK 229
Technology, Ministry of, work and achievements 196
Telecommunications equipment 160
Telephone developments 208, 279, 684, 752, 767
Telephone switchboard, cordless 684, 767
Telescopes 226, 313, 384, 752
Television, cassette, companies marketing 266
last word on 609
Television documentary film on Rinberg Klinik 534
Television programmes 116, 229, 597, 654
Temin enzyme 247
Temperature, and environmental changes, effect on man 587
of walls, comfort and 28
Temperature gauge, ultrasonic, for thick steel 208
Tetrasulphur dinitride, structure 195
Thalidomide children, body harness for 287, 351
Thames, River, flood barrier 552
Thermal insulation, domestic 70, 154
Third World, nutrition in 148, 285
Thunder claps, theories on 250
Ticklishness and laughter 304
Tidal and estuarial water pollution 759
Tidal waves, earthquake, measurement technique 117
Tiles, vinyl, curling behaviour 466
Timber, long lasting varnish for 90
Time, concepts of, and tachyons 500
Tinker, J., Glaxo travelling fellowship award 644
Tourism in Nice 707
Tractor design for underdeveloped countries 116
Trade and Common Market 606
Trade barriers in Europe 245
Traffic lights, control for ambulances 406
Traffic noise in cities 539
Transcendental meditation studies 137
Transcriptase, reverse 247, 669
Transfer of Functions, Aviation Order 338
Transplant surgery 525, 733
Transport, air, charter flights 665
city-centre conveyor belt 29
varying forms of 176
Tree growth and plantation 437, 628
Trent Research Programme, report 614
Trevithick, steam engine 56
Tribology, National Centre of, symposium 31
Triga reactor, Columbia University 272, 715
Turtles, commercial exploitation 210
Tyres, old, freezing and pulverising unit 209
Ultraviolet light, beetle response to 369
Underdeveloped countries, tractor design for 116
Underground cables, protection against termites 573
Underwater detection, holographic technique for 321
Underwater technology, growing interest in 576
Unemployment,in Canada 187
in US 449
United States, cancer research 460, 485, 706
employment situation of scientists in 449, 682
environmental issues 218
health research in 706
higher education finance in 682
power policy 626
science and scientists in 76, 571
SST project 4, 85
use of DDT 169
United States National Academy of Sciences, foreign associates 705
Universe, dead, hypothesis 503
University graduates, employment problems 245, 452, 483, 595, 650
University science courses, changes in 440
University scientific research, Anglo-French 579
Upper Clyde Shipbuilders 663
Uranium-enrichment in South Africa 628
Uranium mine tailings, health hazards 534
Vaccine production, human tissue in 225
Vacuum coating processes 96
van Dyne, G., grassland research 475
Varnish for timber, long lasting 90
Vaughan, C., scientist in non-scientific job 456
Vegetables, lead contamination of 463
Vibration problems 154, 155
Videocassette systems, report on 328
Vietnam 576, 728
Vinyl tiles, curling behaviour 466
Violence and aggression, theory on 177
Viruses, and breast cancer 436
photograph of 557
Vitamin E, role in body 165
Volcanic rock, material from 575
Walker, P., on environment and pollution 214, 338, 390
Wall temperature and comfort 28
Walled city in Texas 597
Wankel rotary engines, production in Israel 206
Wasps and figs, relationship between 144, 352, 482
Waste, dumping in sea 267, 463, 595
Watch, plastic 467
Water, anomalous 670
desalination plants 693
desert, purification of 631
drilling for, in India 227
hot, from nuclear reactor 628
pollution from potato products in Holland 269
supply in Britain 177
Water Board filter beds, algal growth on 324
Water main, root mass in 117
Water resources, expenditure 684
Weapon-testing in US 347
Weather forecasts, economic value 560
Welding, friction, orbital motion 572
West Germany 384, 471, 474
Whately, B., botany chair, Oxford 346
Wheel suspensions, independent 389
Wheels 574, 632
Whistling, last word on 246
Wildlife 54, 138
Windmill to generate electricity 28
Window glass with heat attenuation properties 91
Winds, "jet stream", electricity generation from 90
solar, properties of 610
Wire, hafnium, price increase 347
steel, Dyform, increased production 628
Women in science team 56
Wood and woodworking machines 200, 388
Woodworm eradicants 208
X-ray sources 732, 733
Young Scientists competition 109
Young Volunteer Force Foundation 265
Zinc/air batter 465, 528, 713
Zinc selenide in lighting 26
Zuckerman, Sir Solly, successor 44

AUTHOR INDEX

Abelson, P. Geophysicist's watch on the environment 696
Aicken, F. review of Three sponsored films 113
Aleksander, I. Storage in brains and machines (Letter) 540
Allen, A.M. Animal Health Trust (Letter) 228
Allender, P.J. Open University (Letter) 541
Armstrong, H.L. Wasps and figs (Letter) 482-483
Barber, D. Farmer and conservation -compromise 270
Bard, B. Knowhow balance (Letter) 775
Barkla, J.K. Information retrieval (Letter) 285
Barnaby, F. Gas centrifuge 364
Nuclear technology in US 727
Poly-physics 34
Prophet of a darkling world 334
Reactors and Weapons (Letter) 54
review of Conflict analysis 414
review of Field of Nations 414
review of Race to oblivion 590
review of Strategic survey 1970 535
review of War of the flea 112
Russian ban on biological weapons 68
SALT agreement 497
SST programme in US 4
Underground nuclear tests 131
Barnes, R.S.K. Estuarine association (Letter) 714
Barraclough, E. et al. Information retrieval (Letter) 285
Bateman, P.L.G. Ryan's rats (Letter) 714
Benn, A. Wedgwood, review of Green of America 476
Bennett, C. review of Recruitment advertising 708-709
Bennett, F. Manpower for industrial R & D 458
Berkovitch, I. House building research 665
Thermal insulation 70
Toxic industrial materials 190
Vacuum coating's $50m market 96
Berry, M. Manpower for and from schools 444
Mathematical Association 188
review of Chemicals from oil 112
review of CSE science series: chemistry 340-341
review of Dear Lord James 282
review of Ion exchange 112
review of Piece of waste ground 112
review of Practical science projects 112
Science and mathematics teachers 5
Bhathal, R.S. Education in Asia 730
Biddle, M. review of Impact of the natural sciences on archaeology 770
Bisset, K. review of Role of Mycoplasmas and L-forms of bacteria in disease 479
Booth, A.J.G. Booming business in the boom (Letter) 287
Booth, B. Mount Etna erupts 504
Borgin, K. Why wood is durable 200
Bourne, A. review of Dolphinarium 174-175
review of Ocean salvage 769
Bowden, Lord. What future for the graduate? 452
Bowen, R. Carbon fibres (Letter) 351-352
Bower, J. Farm animals' welfare (Letter) 774
Farmers and conservation (Letter) 420
Brabyn, H. Therapeutic apparatus 433
Briggs, A. review of University experience 414
Bright, W. See Sims, G. and Bright, W.
Brinton, H. and Payne, D. Safety from sewage (Letter) 116
Brooks, E. Birth control 134
Brower, D. Alaska pipeline 79
Brown, R. Aviation satellites 366
Mini computers 135
review of Computer graphics 341
review of Computers in the classroom 341
Safety at sea 302
Bryce-Smith, D. Lead pollution (Letter) 596
Bull, F.V. Dead wood? (Letter) 541-542
Burford, H.C. Scientists with a soul (Letter) 116
Burkett, J. and Burkett, M. Oiled seabirds (Letter) 777
Burkett, M. See Burkett, J. and Burkett, M.
Bush, P. review of Geology of clays 112
Butters, J. Food technology 135
Cantrell, G.L. Astronauts' flashes (Letter) 348
Caplan, B. Knowhow 326
Carlisle, D. Alaskan pipeline 70
Carter, R. Big technology 196
Chedd, G. Aspirin: an answer at last? 744
Boost for exobiology 468
Health research in US 706
Immunological engineers 396
James Bonner, Icarus of biology 700
Man tomorrow 92
Memories are made of what? 41
New botanists 262
review of The living cell 221
Roots of memory 39
The need to understand 753
Christie, G.A. Drug testing (Letter) 117-118
Clements, J.A. Sulphur pollution (Letter) 540-541
Clutterbuck, D. Bosworth courses 71
Nuclear ships 133
review of Great 20th century love affair 649
review of Old straight track 173
Rough passage for nuclear ships? 379
Clyma, E.A. ECT (Letter) 350-351
Cohen, D. Heretic among psychiatrists 583
Mental health tribunal hearings 434
Oil in South-East Asia 729
review of Breakthrough 173

Cohen, D. (cont.)
review of English colour code programmed reading course 648-649
review of Meissen and science 711
review of Primate behaviour 52
review of Toys for mentally handicapped children 284
Commins, E. Intermediate vector boson 382
Conder, P. Oiled seabirds (Letter) 777
Cook, A.M. Ship radar (Letter) 594-595
Cook, R.R. Thirld World tractors (Letter) 116
Craig, P. Inside the polys' 516
Cranmer, P. review of Acoustical foundations of music 50-51
Crawford, M. review of Animal populations 220-221
Crawley, H.J. Battery business (Letter) 713
Croome, A. Boost for marine archaeology 746
ESRO 67
European industrial collaboration 433
Hovercraft conference 189
Intelsat 552
Croome, A., Sherwood, M. and Valéry, N. Whitehall's call for relevant science 672
Currey, J.D. Schizoporella (Letter) 714
Curtis, A. Engineering a cut-price V-12 508
Cutten, J.H. Not so wild (Letter) 484
Dainty, S.H. London sludge (Letter) 652
Davoll, J. Environmental groups (Letter) 712
Deacon, Sir George. review of Science of the Sea 591-592
Deeson, E. Perseverance strikes the mark 392
World currency (Letter) 777
DeFelice, L.J. Astronauts' flashes (Letter) 595
Delacourt-Smith, Lord. Telecommunications policy 160
Delin, J. Report on education 243
Student grants 554
De Souza, E.V. Open University (Letter) 481
Dickson, D. review of Holographs 480
review of Microcosm: art of David Medalla 175
Dixon, A.J. See Edgley, P.D. and Dixon, A.J.
Dixon, B. Animal experimentation 101
Ecology 363
Experiments on living animals 664
Financial problems of Animal Health Trust 68
Research Councils 299
review of Race, intelligence and education 709
review of Unborn Child 771
Third London airport 243
Dowson, D. review of Basic lubrication theory 174
Drury, M.J. Broadening degree courses (Letter) 482
Edels, H. review of School science and technology 648
Edgley, P.D. and Dixon, A.J. Information retrieval (Letter) 348-350
Ehrlich, P. and Freedman, J. Population, crowding and human behaviour 10
Ellis, H. No reactors in New York City 272
Ellis, P. Roots of aggression (Letter) 177
Evans, C. Wild Ghost chases (Letter) 541
Fairhurst, H.H. See Walley, F. and Fairhurst, H.H.
Faraday, A. Oxonian supremacists (Letter) 54
Fisher, J.A. Information retrieval (Letter) 542
Fishlock, D. British Nuclear Fuels 2
Supermagnet 737
Fitch, R.A. Roszak's rhetoric (Letter) 228-229
Ford, B.J. Industrial centre - on Dartmoor's edge 332
Foy, N. Census 132
review of Computers in business 283
review of Picture language machines 283
review of Story of cybernetics 283
Towards a lingua franca for computers 680
Frankton, J.B. et al. Surplus graduates (Letter) 483
Freedman, J. Population, crowding and human behaviour; correction 288
see also Ehrlich, P. and Freedman J.
Fry, M.G.J. The Cole film (Letter) 481
Gadian, T. Industrial risks (Letter) 348
Galston, A. Crops without chemicals 577
Garcia, J. Hot rats (Letter) 178
Garden, G. review of Andy Williams Show 538
review of How to be a survivor 535
Gatland, K. Russian space programme plods ahead 256
Space laboratory 186
Geraghty, P. Wildlife painting (Letter) 54-55
Gillis, J. Segregating bright children (Letter) 776-777
Gilson, H. review of Ecology of running waters 222
Gould, D. Computers in Russia 404
Everywoman, book review 277
Mind of Man, book review 170
Phoenix House project 531
review of Abortion law 48-49
Ringberg-Klinik 42
Silly season 641
Gower, D.B. See Katkov, T. and Gower, D.B.
Green, D. See Vanderkooi, G. and Green, D.
Greenberg, D. Education finance and employment in US 682
Environmental issues in US 218
National Academy of Sciences 311
Presidential election politics 460
Scientists in US 571
SST project in US 85
Griffin, S. Japan cuts its patent backlog 106
Griffiths, A.E.T. Foulness rail fares (Letter) 594
Gunston, B. review of Careers for school leavers 647
review of Careers guide 647
review of Field effect electronics 710
review of Flights into yesterday 281
review of Handbook for expeditions 50
review of Hovercraft 770
review of Year book of technical education 647
Haggard, M.P. Intelligent machines (Letter) 55
Hamilton, D. Advanced passenger train 624
Aircraft industry 609
British chemical industry 665
British nuclear power 365
Computer watch on MPs 300
Technological philospher 162
Trade barriers in Europe 246
Unemployment in Canada 187
Hammond, K. Organochlorine pollution 189
Hancock, J. Making sure the rot sets in 260
Hanlon, J. Cycling the paper round 258
Harris, F. Up, up and away (Letter) 230
Hawkins, D. review of Man and birds 476-478
Hemmings, G. Schizophrenia (Letter) 775-776
Henfrey, A. Not so simple (Letter) 595
Hewer, H.R. Farm animals' welfare (Letter) 652-653
Hewlett, E. Defence research (Letter) 418-419
Hill, D.S. Wasps and figs 144
Holister, G.S. et al. Open University (Letter) 418
Hollis, M. To Hell with logic! 395
Holloway, B. Great expectations? 442
Howard, J. Plastics to withstand heat 760
review of Adhesives handbook 415
Sleepy battery business 528
Illner-Paine, O. review of Man in Industrial Society 283-284
review of What about health? 480
Jackson, E. Elements of research (Letter) 229
Jarman, D. Matter of noughts (Letter) 179
Jarratt, D. Uses and abuses of SI (Letter) 594
Jenkins, D. review of Vegetation, soils and wildlife 536-537
Jobling, A. Adhesives (Letter) 650
Johnson, C.G. Roszak's rhetoric (Letter) 229
Johnson, T. Budget and businessmen 147
CETA Electronics 273
Common market and language 522
Finances 401
Ford's investments in Britain 25
Tracked hovercraft 756
US power policy 626
Videocassettes 328
Jones, D. review of Pneumatics of Hero of Alexandria 52
Jones, G.R.N. CS in the balance 690
Kaiser, T. review of Sun, Earth and Radio 223-224
Kartman, L. Hot rats (Letter) 178
Katkov, T. and Gower, D.B. Communicative odours (Letter) 351
Kennard, M. review of History of dams 111
Kenward, M. Fusion of ideas 398
Ion lasers 216
review of Expanded cinema 220
Kilpatrick, J.A. Storage capacity (Letter) 286
Kinnersley, D.J. Water supply and sewage (Letter) 177
Köllerström, O. Groddeck and Freud (Letter) 179
Layne, J. See Turner, D.A. and Layne, J.
Lea, R.F.G. Fluidics (Letter) 288
Lee, P. Leonard. Why not teach? (Letter) 650
Lemen, G. What is objectivity? (Letter) 650-651
Lenssen, S. Box-girder bridge? 741
Collapsing bridges 728
Lester, E.C. Galloping metaphors (Letter) 228
Lewin, R. Choosing the right problem 642
In search of order 274
review of Animal growth 223
review of Animal photoperiodism 223
review of "Growing Up" 301
Vitamin E 165
Lewin, R. and Sherwood, M. Doing something different 454
Lewis, D. review of Synthetic food 49-50
Lewis, J. Wren review of Religion 768
Lewis, O. Legend (Letter) 542
Liebmann, S. Gloom in US high technology 449
Lindsay, M.J. Tsunamis (Letter) 117
Little, G. Choosing careers (Letter) 350
Littler, D. and Pearson, A. Synthetic leather 37
Lotz, W. Salaries 446
Low, I. review of Population bomb 111
Lynch, J. See Smith, G. and Lynch, J.
MacDonald, B. Farm animals' welfare (Letter) 774
Macdonald, R. Who'll take us? (Letter) 348
Macioti, M. Hands of the Chinese 636
MacKay, D. review of Visual perception of form 648
MacSorley, K. review of Impaired intelligence 647
Macy, C.J.G. The Cole film (Letter) 482
Malik, R. review of Reluctant partnership 222-223
Marks, D. MHD systems 244
Marks, J. Reluctant sponsors (Letter) 286
Marriott, J. Detecting the lone submarine 567
Rationale for defence research 251
Martin, A. review of Specialist Periodical Reports of the Chemical Society 770-771
Matthews, L. Harrison. review of Biology of bats 536
review of Human animal 46
Maxwell, R. Clerk Maxwell's birthplace (Letter) 55
Mayne, A.J. Patents system reform (Letter) 348
McCarthy, C. Universities and the future 440
McMurrough, I. Industry in Ireland 609
Irish industry 70
McNally, E. Safety in laboratories (Letter) 228
Mendelssohn, K. review of Science and civilisation in China 646
Michie, D. Intelligent machines (Letter) 55
Millar, J. Vital four grammes of iron 98
Miller, A. review of First European agriculture 592
Milnes, M. Herschel (Letter) 651
Minchin, R.L.H. Mystery flashes (Letter) 177
Minow, M. Stockholm elms (Letter) 651
Mirzoeff, E. Love affair (Letter) 775
Mitton, S. Kiss of death? (Letter) 482
X-ray sources beyond the Galaxy 526
Molyneux, L. Misleading maxi moan (Letter) 483-484
Moonman, E. Company merger 14
Moorcraft, C. review of Astronomy and art 224
review of Negev: challenge of a desert 708
Morgan, C. Lloyd. review of Joseph Albers 538
review of Kumi Sagai 343
review of Machines de Tinguely 593
Morton, J.D. Foaming Cybermen (Letter) 229
Morton, R.E. Bring back the harem (Letter) 177
Murray, J. review of Apollo 11 conference 48
Neal, K.R.C. The Cole film (Letter) 481-482
Neil, A. Neil illusions 20
Nicholson, M. review of Man and land 46
Oatley, K. review of Biology of memory 478-479
O'Donnell, M. Census forms 219
Cinema organists 110
Shirtless Fridays 470
Slagthorpe horse race 589
Social psychology 344
Tourism in Nice 707
Osborne, D. Ethylene plant growth regulator 511
Osmaston, M. review of Continental drift 47
Patterson, R.A. Red shift (Letter) 712-713
Payne, D. See Brinton, H. and Payne, D.
Payne, P. and Wheeler, E. What protein gap? 148
Pearson, A. See Littler, D. and Pearson, A.
Pearson, P. Retiring chromosome (Letter) 230
Peierls, Sir Rudolf. review of Born-Einstein letters 339
Penman, B. Poke-weed (Letter) 714
Penoyre, S. Robot in the driver's seat 371
Penz, M.J. and Rose, S. Open University (Letter) 481

Perutz, M. Haemoglobin: genetic abnormalities 762
Haemoglobin: molecular lung 676
Petrov, B. Soviet space research 308
Petty, W.H. Polytechnics (Letter) 650
Pilpel, N. Tablets are not pills 104
Pirie, A. Vitamin A deficiency (Letter) 285
Porteous, A. Domestic refuse 736
Porter, F.C. Cadmium prices (Letter) 540
Putnam, E.W. Fissile cows (Letter) 540
Pyke, M. review of Food hygiene 280
review of Food science - a chemical approach 280
review of Metabolic aspects of food safety 280
Quelon, F. What is objectivity? (Letter) 774
Randal, N. Natural disasters (Letter) 778
Ravetz, J. Concorde and technomania (Letter) 778
review of Criticism and the growth of knowledge 220
Redman, R. Anglo-Australian telescope 313
Resuggan, J.C.L. Life's beginnings (Letter) 541
Roberts, W. Formulating art (Letter) 651-652
Robertson, A.W. Printed circuits (Letter) 595
Robinson, R. ICI Research Council (Letter) 286
Rose, S. See Penz, M.J. and Rose, S.
Rosen, S. Science and technology approach year 2000 76
Rosenhead, J. review of Social responsibility of the scientist 709-710
Ross, F. Fraser. Sulphur dioxide (Letter) 651
Sulphur dioxide over Britain and beyond 373
Rossiter, F. Bernard. Cambridge Instruments (Letter) 652
Roszak, T. Unique book (Letter) 179
What is objectivity? (Letter) 774
Ryan, P. Clocks 302
Executive persecution 135
Football fans 666
Gout 5
Kissing 730
Patience 434
Propitiation 366
Rams 498
Rats 554
Sheep 190
Statues 71
Television 609
Whistling 246
Sabbagh, K. Young scientists compete in Europe 639
Schmidt, H. Mental influence on random events 757
Schreiber, C.K. Carbon fibres (Letter) 287
Scott, J. review of Ming porcelains 771
Shepherd, E. Colston. Air transport charter flights 665
Concorde orders 553
review of Power to fly 478
Surcharge on air fares 246
TU 144 flight programme 190
Sherwood, M. Academic trends 5
Compassionate Cassandra 102
Computer education 498
Defence research 551
Gaps in medical care 366
Getting the sums right 461
Higher education 607
Interbac 325
Polytechnics' progress 513
review of Darwin's bulldog 341-342
review of Fluorescers 593
review of Images 113
review of Poetries and sciences 173-174
review of The Present 771
Science and the politician 402
Scientific manpower 432
Unemployment of university graduates 245
see also Croome, A., Sherwood, M. and Valéry, N.; Lewin, R. and Sherwood, M.
Short, J.L. Cautionary tale (Letter) 483
Shortland, M. ERA mini-computer survey (Letter) 288
Sier, A.G. Laboratory safety (Letter) 540
Simms, M. review of Sex, career and family 173
Simon, J. Treem's finger (Letter) 287
Sims, G. and Bright, W. New alliance in science? 579
Sinha, B. Finniston's flag (Letter) 285
Sitwell, N. Dolphinarium (Letter) 287-288
Skevington, D. review of Understanding the Earth 479
Sladek, J. review of Computers, information theory and cybernetics 415
review of Mathematics in art 591
Smith, G. and Lynch, J. Information by the yard 32
Smith, G.D.W. Information retrieval (Letter) 713
Smith, P.J. review of The Earth 710
Spence, K. review of Criteria of electronic music 342-343
review of Haydn's Il Mondo della Luna 175
Stevenson, J. Reactors and weapons (Letter) 54
Stoves, J. review of Furskin processing 282
Stubbs, P. Geodynamics 729
Natural disasters 495
Red shift without reason 254
Thames Barrier 552
West Germany's big radio dish 384
Suddaby, P. review of Lunar rocks 47
Sullivan, P. Nuclear strategy (Letter) 715
Sundstrom, E. Feet and metres (Letter) 118
Taylor, J. Curbing the cost of bad weather 560
Taylor, K. Language, please (Letter) 419
Tharby, R.D. Good spark (Letter) 594
Thompson, A. review of History of roads 340
Tierstein, M.N. Lamb and lion (Letter) 117
Tinker, J. Cadmium pollution 187
Countryside Commission director 4
Crocs and turtles 210
Ecology 553
Environmental politician 214
Environmental pollution 728
Lead in petrol 300
Lead pollution 497; Letter 596
Oiled seabirds 608; Letter 777
One flower in 10 faces extinction 408
PCB story 16
Population policy 433
review of Animal traps and trapping 708
review of Dirtiest show in town 416
review of Field guide to butterflies 221
review of Rabbits and their history 768-769
review of Signals for survival 111-112
River conservation 666
River pollution 245
RSPB and pole traps 364
Seabird wreck of 1969 69
The smug and silver Trent 614
Tinklin, R. Botanical puzzle (Letter) 117
Toms, H. See Walker, G. and Toms, H.
Tooze, J. Cancer cell's hot spots 82
Trefall, H. Dirty habits (Letter) 595-596
Tudge, C. review of Deep oceans 709
Turner, C.W. Life in the polys (Letter) 776
Turner, D.A. and Layne, J. Courses for R-R men (Letter) 712
Turner, G. review of Motor car and politics 340
Tye, A. Yucca/yucca symbiosis (Letter) 352
Tyler, G.W. Civil Defence (Letter) 117
Urben, P.G. Not so simple (Letter) 595
Valéry, N. Common Market and trade 607
Concorde aircraft 133
Contract research 198
Germany's science boom gets underway 471
Landslide menace to motorways 86
Lockheed 3
Open University 336; Letters 418, 481
review of Rolls on the rocks 172
Upper Clyde Shipbuilders 664
see also Croome, A., Sherwood, M. and Valéry, N.
Vanderkooi, G. and Green, D. Genesis of a membrane model 22
Varley, G. review of Sould of the white ant 590-591
Vernon, E. Rats! (Letter) 229-230
Vessels, R.D. First pile (Letter) 715
Walker, G. and Toms, H. review of Italienische vulkangebiete I and II 710
Walley, F. and Fairhurst, H.H. Underground power (Letter) 177-178
Ward, A.F.H. Safety in labs (Letters) 419-420, 713
Watkins, D. review of Organising for innovation 770
Watson, P.J.S. Syncopated rowing (Letter) 54
Watt, J.A.G. Four-fingered Treem (Letter) 177
Weale, R. review of Richard Oginz 711
review of Robert Morris 416
Westerman, G. review of Long safari 49
Weston, J. review of Scientific and medical books 53
Wheeler, E. See Payne, P. and Wheeler, E.
Wheeler, F. The show must go on 204
Wheeler, R. Hovercraft 140
Wherrett, B. Infrared eye 564
White, S. review of Galileo: the first modern scientist 282-283
review of Newton 282-283
review of Victorian science 535-536
Siberian water 472
Whitton, M. Birth rates (Letter) 352
Wick, G. BA programme 730
They won't shut up 532
Wickramasinghe, N. Strong infrared galaxies 694
Williamson, D.T.N. Engineering niche for Britain 618
Wilson, F. Biological pest control 523
Wilson, J. Rowan. review of Pyschology of science 51-52
review of Teamwork for world health 415
Wood, C. review of Steroid biochemistry 592
Wood, K. review of Water quality control 592
Scientific instrument industry 496
Woodruff, W.C. Air traffic problems (Letter) 287
Worral, R.L. Ethylene interest (Letter) 712
Wylie, W. From the Swahili (Letter) 351
Yarar, B. Cynical? (Letter) 714-715
Young, E. Civil Defence (Letter) 116-117
Nuclear strategy (Letter) 778

REVIEWS INDEX

Abortion law reformed by M. Simms and K. Hindell 48
Acoustical foundations of music by J. Backus 50
Adhesives handbook by J. Shields 415, 650
Aicken, F. Galileo: first modern scientist 282
Newton: architect of scientific society 282
Andy Williams Show 538
Animal growth and development by D.R. Newth 223
Animal photoperiodism by B. Lofts 223
Animal populations ed. by A. Watson 220
Animal traps by J.A. Bateman 708
Archibald, J. and Associates Ltd. Images 113
Astronomy and art by D.C. Early 224
Aurum, film 113
Backus, J. Acoustical foundations of music 50
Basalla, G. et al. (Eds.) Victorian science 535
Basic lubrication theory by A. Cameron 174
Bateman, J.A. Animal traps 708
Benyon, M. Holographs 480
Biology of bats ed. by W.A. Wimsatt 536
Biology of memory ed. by K.H. Pribram and D.E. Broadbent 478
Born-Einstein letters by M. Born 339
Born, M. Born-Einstein letters 339
Breakthrough: electronic communication with dead by K. Raudive 173
Briggs, M.H. and Brotherton, J. Steroid biochemistry 592
Brown, M. (Ed.) Social responsibility of scientist 709
Burgess, T. (Ed.) Dear Lord James 282
Cameron, A. Basic lubrication theory 174
Careers for school leavers 647
Careers guide 647
Chemicals from oil by R.T. Nye 112
Christie, A.B. and Christie, M.C. Food hygiene 280
Colloids, film 113
Computer graphics ed. by R.E. Green and R.D. Parslow 341
Computers in business 283
Computers in the classroom 341
Computers, information theory and cybernetics 415
Conflict Analysis by M. Nicholson 414

Continental drift by D.H. Tarling and M.P. Tarling 47
Criteria of electronic music by K. Stockhausen 342
Criticism and the growth of knowledge ed. by I. Lakatos and A. Musgrave 220
Croome, A. Hovercraft 770
CSE science series: chemistry by R.H. Stone and D.W.H. Tripp 340
Darwin's bulldog 341
Dear Lord James ed. by T. Burgess 282
Deep oceans by P.J. Herring and M.R. Clarke 709
Deuel, L. Flights into yesterday 281
Dirtiest show in town 416
Dolphinarium 174, 287
Early D.C. Astronomy and art 224
Earth, The by I.O. Evans 710
Ecology of running waters by H.B.N. Hynes 222
Ehrlich, P. Population bomb 111
Ehrlich, P.R. and Harriman, R.L. How to be a survivor 535, 712
Electric Theatre; correction 118
English colour code programmed reading course by D. Moseley 648
Evanari, M., Shanan, L. and Tadmor, N. Negev: challenge of a desert 708
Evans, I.O. The Earth 710
Expanded cinema by G. Youngblood 220
Eysenck, H.J. Race, intelligence and education 709
Field effect electronics by W. Gosling et al. 710
Field guide tobutterflies of Britain and Europe by L.G. Higgins and N.D. Riley 221
Field of Nations by N. Forward 414
First European agriculture by J. Murray 592
Flights into yesterday by L. Deuel 281
Fluorescers 593
Fogarty, M.P. et al. Sex, career and family 173
Food hygiene and food hazards by A.B. Christie and M.C. Christie 280
Food science - a chemical approach by B.A. Fox and A.G. Cameron 280
Forward, N. Field of Nations 414
Fox, B.A. and Cameron, A.G. Food science 280
Frankenstein, C. Impaired intelligence 647
Fuchs, W.R. Computers, information theory and cybernetics 415
Furskin processing by H. Kaplan 282
Galileo by F. Aicken 282
Gass, I.G. et al. (Eds.) Understanding the Earth 479
Geology of clays by G. Millot 112
Gillie, O. Living cell 221
Glemser, B. Long safari 49
Gosling, W. et al. Field effect electronics 710
Gray, R. Rolls on the rocks 172
Great 20th century love affair 649, 775
Green, R.E. and Parslow, R.D. (Eds.) Computer graphics 341
Greening of America by C. Reich 476
Hall, M. Boas. Pneumatics of Hero of Alexandria 52
Handbook for expeditions 50
Hass, H. Human animal 46, 351
Haydn's II Mondo della Luna 175
Herring, P.J. and Clarke, M.R. Deep oceans 709
Higgins, L.G. and Riley, N.D. Field guide to butterflies 221
Hindley, G. History of roads 340
History of dams by N. Smith 111
History of roads by G. Hindley 340
Holographs by M. Benyon 480
Holt, M. Mathematics in art 591, 651
Hovercraft by A. Croome 770
How to be a survivor by P.R. Ehrlich and R.L. Harriman 535, 712
Human animal by H. Hass 46, 351
Hynes, H.B.N. Ecology of running waters 222
Idyll, E.P. (Ed.) Science of the sea 591
Images by James Archibald & Associates Ltd. 113
Impact of natural sciences on archaeology 770
Impaired intelligence by C. Frankenstein 647
Imperial Chemical Industries by W.J. Reader 286
Ion exchange by R.W. Thomas 112
Italienische vulkangebiete I and II by H. Pichler 710
Jacoby, E.H. and Jacoby, C.F. Man and land 46
Joseph Albers 538
Kaneff, S. (Ed.) Picture language machines 283
Kaplan, H. Furskin processing 282
Koster, D.A. Ocean salvage 769
Kumi Sagai 343
Lakatos, I. and Musgrave, A. (Eds.) Criticism and the growth of knowledge 220
Let There be Light, film 113
Levinson, A.A. (Ed.) Apollo 11 conference 48
Little, G. University experience: An Australian study 414
Living cell by O. Gillie 221
Lofts, B. Animal photoperiodism 223
Long safari by B. Glemser 49
Lunar rocks by B. Mason and W.G. Melson 47
Machines de Tinguely 593
Man and land by E.H. Jacoby and C.F. Jacoby 46
Man in Industrial Society 283
Marais, E. Soul of the white ant 590
Margolin, J.B. and Misch, M.R. (Eds.) Computers in the classroom 341
Maslow, A.H. Psychology of science 51, 179
Mason, B. and Melson, W.G. Lunar rocks 47
Mathematics in art by M. Holt 591, 651
Meissen and science 711
Metabolic aspects of food safety ed. by F.J.C. Roe 280
Microcosm: the art of David Medalla 175
Millot, G. Geology of clays 112
Ming porcelains 771
Moonman, E. Reluctant partnership 222
Morton, J.A. Organising for innovation 770
Moseley, D. English colour code programmed reading course 648
Motor car and politics 1896-1970 by W. Plowden 340
Murray, J. First European agriculture 592
Murton, R.K. New Naturalist series 476
Needham, J. Science and civilisation in China 646
Negev: challenge of a desert 708
Nelson, J.G. and Chambers, M.J. (Eds.) Vegetation, soils and wildlife 536
New Naturalist series, Man and birds by R.K. Murton 476
Newth, D.R. Animal growth and development 223
Newton by F. Aicken 282
Nicholson, M. Conflict Analysis 414
Nisbett, A. School science and technology 648
Nye, R.T. Chemicals from oil 112
Ocean salvage by D.A. Koster 769
Old straight track by A. Watkins 173
Organising for innovation by J.A. Morton 770
Pichler, H. Italienische vulkangebiete I and II 710
Picture language machines ed. by S. Kaneff 283
Piece of waste ground by H. Wigley 112
Plowden, W. Motor car and politics 1896-1970 340
Pneumatics of Hero of Alexandria by M. Boas Hall 52
Poetries and sciences by I.A. Richards 173
Population bomb by P. Ehrlich 111
Power to fly by L.J.K. Setright 478
Practical science projects by I. Sime 112
Present, The 771
Pribram, K.H. and Broadbent, D.E. (Eds.) Biology of memory 478
Primate behaviour ed. by L.A. Rosenblum 52
Principles of water quality control 592
Proceedings of the Apollo 11 conference 48
Psychology of science by A.H. Maslow 51, 179
Pyke, M. Synthetic food 49
Rabbits and their history by J. Sheail 768
Race, intelligence and education by H.J. Eysenck 709
Race to oblivion by H. York 590, 778
Ratcliffe, J.A. Sun, Earth and Radio 223
Raudive, K. Breakthrough: electronic communication with the dead 173
Ray, M.E. Recruitment advertising 708
Reader, W.J. Imperial Chemical Industries 286
Recruitment advertising by M.E. Ray 708
Reich, C. Greening of America 476
Religion and the decline of magic by K. Thomas 768
Reluctant partnership by E. Moonman 222
Richard Oginz 711
Richards, I.A. Poetries and sciences 173
Riley, N.D. See Higgins, L.G. and Riley, N.D.
Robert Morris 416
Roe, F.J.C. (Ed.) Metabolic aspects of food safety 280
Role of Mycoplasmas and L-forms of bacteria 479
Rolls on the rocks by R. Gray 172
Rosenblum, L.A. Primate behaviour 52
School science and technology by A. Nisbett 648
Science and civilisation in China by J. Needham 646
Science of the sea ed. by E.P. Idyll 591
Scientific and medical books 53
Setright, L.J.K. Power to fly 478
Sex, career and family by M.P. Fogarty et al. 173
Sharp, J.T. (Ed.) Mycoplasmas and L-forms of bacteria 479
Sheail, J. Rabbits and their history 768
Shields, J. Adhesives handbook 415, 650
Signals for survival by N. Tinbergen and H. Falkus 111
Sime, I. Practical science projects 112
Simms, M. and Hindell, K. Abortion law 48
Smith, N. History of dams 111
Social responsibility of the scientist ed. by M. Brown 709
Soul of the white ant by E. Marais 590
Specialist Periodical Reports of the Chemical Society 770
Steroid biochemistry and physiology 592
Stockhausen, K. Electronic music 342
Stone, R.H. and Tripp, D.W.H. CSE science series: chemistry 340
Story of cybernetics by M. Trask 283
Strategic survey 1970 535
Sun, Earth and Radio by J.A. Ratcliffe 223
Synthetic food by M. Pyke 49
Taber, R. War of the flea 112
Tarling, D.H. and Tarling, M.P. Continental drift 47
Teamwork for world health ed. by G. Wolstenholme and M. O'Connor 415
Tebbutt, T.H.Y. Water quality control 592
Thomas, K. Religion and decline of magic 768
Thomas, R.W. Ion exchange 112
Tinbergen, N. and Falkus, H. Signals for survival 111
Toys for mentally handicapped children 284
Trask, M. Story of cybernetics 283
Unborn Child - A New Dilemma 771
Understanding the Earth ed. by I.G. Gass et al. 479
University experience: Australian study 414
Vegetation, soils and wildlife ed. by J.G. Nelson and M.J. Chambers 536
Victorian science ed. by G. Basalla, W. Coleman and R.H. Kargon 535
Visual perception of form by L. Zusne 648
War of the flea by R. Taber 112
Watkins, A. Old straight track 173
Watson, A. (Ed.) Animal populations 220
What about health? 480
Wigley, H. Piece of waste ground 112
Wimsatt, W.A. (Ed.) Biology of bats 536
Wolstenholme, G. and O'Connor, M. (Eds.) Teamwork for world health 415
Year book of technical education 647
York, H. Race to oblivion 590, 778
Youngblood, G. Expanded cinema 220
Zusne, L. Visual perception of form 648